

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1	pump with ((rotary near3 control\$2) and (piston\$2) and (control\$2 near plate\$3) and (friction))".clm"	US-PGPUB	OR	OFF	2006/07/19 10:38

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	pump with ((rotary near3 control\$2) and (piston\$2) and (control near plate) and (friction))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/19 10:23
L2	1	pump with ((rotary near3 control\$2) and (piston\$2) and (control near plate) and (friction)).clm"	US-PGPUB	OR	OFF	2006/07/19 10:38
L3	1	pump with ((rotary near3 control\$2) and (piston\$2) and (control near plate\$3) and (friction)).clm"	US-PGPUB	OR	OFF	2006/07/19 10:38
L4	1	pump with ((rotary near3 control\$2) and (piston\$2) and (control\$2 near plate\$3) and (friction)).clm"	US-PGPUB	OR	OFF	2006/07/19 10:38
S1	11	("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570")).PN. or (2003/0008186).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/06/07 12:48
S2	12	("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570")).PN.	US-PGPUB; USPAT	OR	OFF	2006/06/07 13:07
S3	25	("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570") or ("5,637,414") or ("5,432,710") or ("5,401,589") or ("4,468,235") or ("4,359,312") or ("4,214,969") or ("4,098,960") or ("4,098,959") or ("3,469,944") or ("3,350,176") or ("3,338,681") or ("3,336,730") or ("2,824,620")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 09:19
S4	0	S3 and (wearplate\$3 near teflon)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:36
S5	0	S3 and (wearplate\$3 near friction)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 09:20

## EAST Search History

S6	0	S3 and ((wear same plate\$3) near friction)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 09:20
S7	0	S3 and ((control same (surface\$2 or plate\$3) near friction))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 09:22
S8	5	S3 and ((control same (surface\$2 or plate\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 09:28
S9	0	S3 and ((control same (surface\$2 or plate\$3))near material\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 09:28
S10	25	(("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570") or ("5,637,414") or ("5,432,710") or ("5,401,589") or ("4,468,235") or ("4,359,312") or ("4,214,969") or ("4,098,960") or ("4,098,959") or ("3,469,944") or ("3,350,176") or ("3,338,681") or ("3,336,730") or ("2,824,620")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 09:34
S11	1	("6378415").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 12:36
S12	963	(137/375).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/13 13:36
S13	49	S12 and (rotary)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 13:36
S14	0	S12 and (rotary with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:47
S15	2	S12 and (rota\$4 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:57
S16	5	S12 and (rota\$4 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:32

## EAST Search History

S17	25	(("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570") or ("5,637,414") or ("5,432,710") or ("5,401,589") or ("4,468,235") or ("4,359,312") or ("4,214,969") or ("4,098,960") or ("4,098,959") or ("3,469,944") or ("3,350,176") or ("3,338,681") or ("3,336,730") or ("2,824,620")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 13:58
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## EAST Search History

S18	883	("0646024"   "1306221"   "1506892"   "1519670"   "1723874"   "1782824"   "1848466"   "2010377"   "2132151"   "2225788"   "2397594"   "2450804"   "2458294"   "2600099"   "2609059"   "2745350"   "2773561"   "2809107"   "2824620"   "2926981"   "2962123"   "3016837"   "3094391"   "3134696"   "3144312"   "3148031"   "3155467"   "3159506"   "3208198"   "3272079"   "3302528"   "3336730"   "3338681"   "3350176"   "3350846"   "3356538"   "3368329"   "3381366"   "3428476"   "3439474"   "3447288"   "3450500"   "3451428"   "3469372"   "3469944"   "3520803"   "3522019"   "3524819"   "3534531"   "3564819"   "3589171"   "3607066"   "3607419"   "3622303"   "3665680"   "3668013"   "3702143"   "3713270"   "3720353"   "3761382"   "3765946"   "3781907"   "3782904"   "3787038"   "3791106"   "3795087"   "3816029"   "3823557"   "3839110"   "3847507"   "3849076"   "3857735"   "3881891"   "3881897"   "3917531"   "3920416"   "3932667"   "3955941"   "3972695"   "3980452"   "3982910"   "4003343"   "4003725"   "4028018"   "4053902"   "4056373"   "4057479"   "4061601"   "4084934"   "4098959"   "4098960"   "4118294"   "4124478"   "4127360"   "4127393"   "4128476"   "4131393"   "4132668"   "4134739"   "4135995"   "4137011"   "4153484"   "4160014"   "4197152"   "4233002"   "4233156"   "4238403"   "4248688"   "4254086"   "4302177"   "4315893"   "4319923"   "4329157"   "4331520"   "4341067"   "4346137"   "4349613"   "4359312"   "4381641"   "4387434"   "4400182"   "4417905"   "4422911"   "4430304"   "4432310").PN. OR ("4436230"   "4444158"   "4466253"   "4468235"   "4472176"   "4473622"   "4504447"   "4533607"   "4553981"   "4556371"   "4567857"   "4583583"   "4589891"   "4613436"   "4642273"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 14:33
7/19/2006 10:40:26 AM		"4644751"   "4650814"   "4654063"   "4655797"   "4657828"   "4659634"   "4670359"   "4680478"			Page 4	

## EAST Search History

S19	1	S18 and ((fuel or hydrogen) with (rotary near valve))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 14:43
S20	1	S18 and ((fuel or hydrogen) with (rota\$4 near valve\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 17:17
S21	1	S18 and (rota\$4 near (control with valve\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 14:45
S22	19	S18 and (valve\$3 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:48
S23	28	S12 and (valv\$4 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:26
S24	25	(("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570") or ("5,637,414") or ("5,432,710") or ("5,401,589") or ("4,468,235") or ("4,359,312") or ("4,214,969") or ("4,098,960") or ("4,098,959") or ("3,469,944") or ("3,350,176") or ("3,338,681") or ("3,336,730") or ("2,824,620")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:09
S25	963	(137/375).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 09:23

## EAST Search History

S26	883	( "0646024"   "1306221"   "1506892"   "1519670"   "1723874"   "1782824"   "1848466"   "2010377"   "2132151"   "2225788"   "2397594"   "2450804"   "2458294"   "2600099"   "2609059"   "2745350"   "2773561"   "2809107"   "2824620"   "2926981"   "2962123"   "3016837"   "3094391"   "3134696"   "3144312"   "3148031"   "3155467"   "3159506"   "3208198"   "3272079"   "3302528"   "3336730"   "3338681"   "3350176"   "3350846"   "3356538"   "3368329"   "3381366"   "3428476"   "3439474"   "3447288"   "3450500"   "3451428"   "3469372"   "3469944"   "3520803"   "3522019"   "3524819"   "3534531"   "3564819"   "3589171"   "3607066"   "3607419"   "3622303"   "3665680"   "3668013"   "3702143"   "3713270"   "3720353"   "3761382"   "3765946"   "3781907"   "3782904"   "3787038"   "3791106"   "3795087"   "3816029"   "3823557"   "3839110"   "3847507"   "3849076"   "3857735"   "3881891"   "3881897"   "3917531"   "3920416"   "3932667"   "3955941"   "3972695"   "3980452"   "3982910"   "4003343"   "4003725"   "4028018"   "4053902"   "4056373"   "4057479"   "4061601"   "4084934"   "4098959"   "4098960"   "4118294"   "4124478"   "4127360"   "4127393"   "4128476"   "4131393"   "4132668"   "4134739"   "4135995"   "4137011"   "4153484"   "4160014"   "4197152"   "4233002"   "4233156"   "4238403"   "4248688"   "4254086"   "4302177"   "4315893"   "4319923"   "4329157"   "4331520"   "4341067"   "4346137"   "4349613"   "4359312"   "4381641"   "4387434"   "4400182"   "4417905"   "4422911"   "4430304"   "4432310").PN. OR ("4436230"   "4444158"   "4466253"   "4468235"   "4472176"   "4473622"   "4504447"   "4533607"   "4553981"   "4556371"   "4567857"   "4583583"   "4589891"   "4613436"   "4642273"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 09:23
7/19/2006 10:40:26 AM		"4644751"   "4650814"   "4654063" C:\Documents and Settings\SpentMy Documents\EAST\Workspaces\10622808.wsp   "4655797"   "4657828"   "4659634"   "4670359"   "4680478"			Page 6	

## EAST Search History

S27	1848	S24 S25 S26	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:23
S28	0	S27 and ((rota\$4 near valv\$4) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:27
S29	0	S27 and ((rotary near valv\$4) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:29
S30	48	S27 and (valv\$4 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:29
S31	13	S27 and (rota\$4 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:39
S32	1	((rota\$4 near control) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 17:21
S33	716	((rota\$4) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:46
S34	150	((rota\$4) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon)) and pump	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:01
S35	23	((rota\$4 same contro\$3) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:00
S36	9	S35 and pump	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 09:59
S37	1325	(417/269).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:00
S38	1797	(417/269,503,516,519).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:00

## EAST Search History

S39	0	(((rota\$4 same contro\$3) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon)) and S38	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:00
S40	1	(((rota\$4) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon)) and S38	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:06
S41	855	(92/71,155).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:06
S42	0	(((rota\$4) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon)) and S41	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:07
S43	3	(((member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon)) and S41	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:07
S44	0	S24 and (piston\$3 near (seal\$3 with channel\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:15
S45	0	("277.clas").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:14
S46	0	(277/.clas).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:15
S47	31836	("277").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 10:15
S48	4	S47 and (piston\$3 near (seal\$3 with channel\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 10:15
S49	33	("0646024"   "1723874"   "2010377"   "2225788"   "2397594"   "2458294"   "2600099"   "2745350"   "3016837"   "3272079"   "3702143"   "3816029"   "3823557"   "4028018"   "4233002"   "4359312"   "4432310"   "4436230"   "4556371"   "4687426"   "5230610").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:42
S50	1	S49 and teflon	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:44
S51	5	("5733105").URPN.	USPAT	OR	OFF	2006/07/14 12:44

## EAST Search History

S52	0	S51 and teflon	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:44
S53	39	("0646024"   "1506892"   "1519670"   "1723874"   "2010377"   "2225788"   "2397594"   "2458294"   "2600099"   "2745350"   "3272079"   "3302528"   "3451428"   "3702143"   "3720353"   "3816029"   "3823557"   "4028018"   "4359312"   "4432310"   "4556371"   "4687426"   "5261451").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:44
S54	2	S53 and teflon	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:44

## EAST Search History

S55	883	("0646024"   "1306221"   "1506892"   "1519670"   "1723874"   "1782824"   "1848466"   "2010377"   "2132151"   "2225788"   "2397594"   "2450804"   "2458294"   "2600099"   "2609059"   "2745350"   "2773561"   "2809107"   "2824620"   "2926981"   "2962123"   "3016837"   "3094391"   "3134696"   "3144312"   "3148031"   "3155467"   "3159506"   "3208198"   "3272079"   "3302528"   "3336730"   "3338681"   "3350176"   "3350846"   "3356538"   "3368329"   "3381366"   "3428476"   "3439474"   "3447288"   "3450500"   "3451428"   "3469372"   "3469944"   "3520803"   "3522019"   "3524819"   "3534531"   "3564819"   "3589171"   "3607066"   "3607419"   "3622303"   "3665680"   "3668013"   "3702143"   "3713270"   "3720353"   "3761382"   "3765946"   "3781907"   "3782904"   "3787038"   "3791106"   "3795087"   "3816029"   "3823557"   "3839110"   "3847507"   "3849076"   "3857735"   "3881891"   "3881897"   "3917531"   "3920416"   "3932667"   "3955941"   "3972695"   "3980452"   "3982910"   "4003343"   "4003725"   "4028018"   "4053902"   "4056373"   "4057479"   "4061601"   "4084934"   "4098959"   "4098960"   "4118294"   "4124478"   "4127360"   "4127393"   "4128476"   "4131393"   "4132668"   "4134739"   "4135995"   "4137011"   "4153484"   "4160014"   "4197152"   "4233002"   "4233156"   "4238403"   "4248688"   "4254086"   "4302177"   "4315893"   "4319923"   "4329157"   "4331520"   "4341067"   "4346137"   "4349613"   "4359312"   "4381641"   "4387434"   "4400182"   "4417905"   "4422911"   "4430304"   "4432310").PN. OR ("4436230"   "4444158"   "4466253"   "4468235"   "4472176"   "4473622"   "4504447"   "4533607"   "4553981"   "4556371"   "4567857"   "4583583"   "4589891"   "4613436"   "4642273"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/14 12:48
7/19/2006 10:40:26 AM	C:\Documents and Settings\SBeit\My Documents\EAST\Workspaces\10622808.wsp	4644751"   "4650814"   "4654063" "4655797"   "4657828" "4659634"   "4670350"   "4680478"			Page 10	

## EAST Search History

S56	19	S55 and (valve\$3 with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:48
S57	1	S55 and (valve\$3 near (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:51
S58	368	S55 and ((polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:50
S59	34	S55 and (valve\$3 same (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:51
S60	785	S55 and (valve\$3 same\$6. (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:51
S61	15	S55 and (valve\$3 near5 (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/14 12:51
S62	62306	("417").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/07/18 07:55
S63	0	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((piston near seal\$2) near5 (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 07:58
S64	0	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((seal\$2) near5 (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 07:58
S65	1	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((seal\$2) same (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 07:59
S66	1	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((ring\$2 or seal\$2) near5 (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 08:01
S67	0	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((ring\$2 or seal\$2) near (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 08:01

## EAST Search History

S68	2	S62 and ((alcohol\$2 or hydrocarbon\$2) with ((ring\$2 or seal\$2) same (channel\$2 or groove\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/18 08:01
S69	25	(("20030008186") or ("6,569,227") or ("6,537,352") or ("6,376,113") or ("6,375,906") or ("6,221,117") or ("6,152,995") or ("6,083,637") or ("5,997,594") or ("5,861,137") or ("5,733,105") or ("5,718,570") or ("5,637,414") or ("5,432,710") or ("5,401,589") or ("4,468,235") or ("4,359,312") or ("4,214,969") or ("4,098,960") or ("4,098,959") or ("3,469,944") or ("3,350,176") or ("3,338,681") or ("3,336,730") or ("2,824,620")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/18 16:53

## EAST Search History

S70	887	("0646024"   "1306221"   "1506892"   "1519670"   "1723874"   "1782824"   "1848466"   "2010377"   "2132151"   "2225788"   "2397594"   "2450804"   "2458294"   "2600099"   "2609059"   "2745350"   "2773561"   "2809107"   "2824620"   "2926981"   "2962123"   "3016837"   "3094391"   "3134696"   "3144312"   "3148031"   "3155467"   "3159506"   "3208198"   "3272079"   "3302528"   "3336730"   "3338681"   "3350176"   "3350846"   "3356538"   "3368329"   "3381366"   "3428476"   "3439474"   "3447288"   "3450500"   "3451428"   "3469372"   "3469944"   "3520803"   "3522019"   "3524819"   "3534531"   "3564819"   "3589171"   "3607066"   "3607419"   "3622303"   "3665680"   "3668013"   "3702143"   "3713270"   "3720353"   "3761382"   "3765946"   "3781907"   "3782904"   "3787038"   "3791106"   "3795087"   "3816029"   "3823557"   "3839110"   "3847507"   "3849076"   "3857735"   "3881891"   "3881897"   "3917531"   "3920416"   "3932667"   "3955941"   "3972695"   "3980452"   "3982910"   "4003343"   "4003725"   "4028018"   "4053902"   "4056373"   "4057479"   "4061601"   "4084934"   "4098959"   "4098960"   "4118294"   "4124478"   "4127360"   "4127393"   "4128476"   "4131393"   "4132668"   "4134739"   "4135995"   "4137011"   "4153484"   "4160014"   "4197152"   "4233002"   "4233156"   "4238403"   "4248688"   "4254086"   "4302177"   "4315893"   "4319923"   "4329157"   "4331520"   "4341067"   "4346137"   "4349613"   "4359312"   "4381641"   "4387434"   "4400182"   "4417905"   "4422911"   "4430304"   "4432310").PN. OR ("4436230"   "4444158"   "4466253"   "4468235"   "4472176"   "4473622"   "4504447"   "4533607"   "4553981"   "4556371"   "4567857"   "4583583"   "4589891"   "4613436"   "4642273"   "4644751"   "4650814"   "4654063" C:\Documents and Settings\SBell\My Documents\EAST\Workspaces\10622808.wsp "4655797"   "4657828" "4650624"   "4670350"   "4680478"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 17:17
7/19/2006 10:40:26 AM					Page 13	

## EAST Search History

S71	0	S70 and ((fuel or hydrogen) with (rota\$4 near valve\$3))	US-PGPUB	OR	OFF	2006/07/18 17:17
S72	148	((fuel or hydrogen) with (rota\$4 near valve\$3))	US-PGPUB	OR	OFF	2006/07/18 17:18
S73	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (low near friction)))	US-PGPUB	OR	OFF	2006/07/18 17:19
S74	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (low same friction)))	US-PGPUB	OR	OFF	2006/07/18 17:19
S75	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (friction)))	US-PGPUB	OR	OFF	2006/07/18 17:19
S76	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (teflon)))	US-PGPUB	OR	OFF	2006/07/18 17:20
S77	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (low near wear)))	US-PGPUB	OR	OFF	2006/07/18 17:20
S78	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (wear)))	US-PGPUB	OR	OFF	2006/07/18 17:20
S79	0	((fuel or hydrogen) with ((rota\$4 near valve\$3) with (wear\$3)))	US-PGPUB	OR	OFF	2006/07/18 17:20
S80	1	(((rota\$4 near control) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))	US-PGPUB	OR	OFF	2006/07/18 17:22
S81	1	(((rota\$4 near control) with (member or valve\$3)) with (polymide\$3 or Igus or Delrin or acetal\$2 or vespel or titanium or alumina or teflon))".clm"	US-PGPUB	OR	OFF	2006/07/18 17:22